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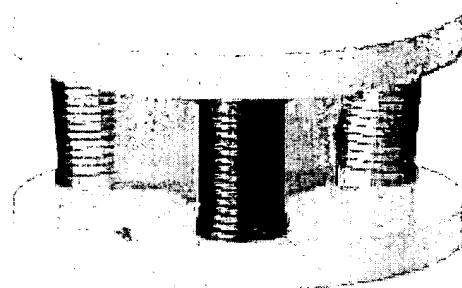
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Compliance Wrist

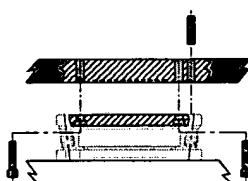
- Robotic applications:** Excellent for inserting components that may be mis-aligned or skewed with respect to mating components. Reduces part jamming which could transmit excessive forces back to the robot.
- Automation applications:** For insertion applications where part positioning may be less than precise. Compliance in torsion, bending and lateral directions allow this device to compensate for part placing inaccuracies.



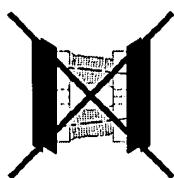
Mounting Information:



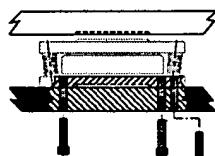
On size 50-80, robot side has tapped holes for mounting



On size 125-300, robot side has counter bored holes for mounting with a dowel hole and raised boss for location



Not recommended in horizontal axis applications where the weight attached to the tool side can deflect the device



On all sizes tool side has tapped holes for mounting. Sizes 125-300 have pilot hole and dowel hole for positioning

Technical Specifications:

Pneumatic Specifications	Imperial	Metric
Pressure Operating Range	40-100 psi	3-7 bar
Cylinder Type	Double Acting	
Dynamic Seals	Internally Lubricated Buna-N	
Valve Required to Operate	4-way, 2-position	

Air Quality Requirements

Air Filtration	40 Micron or Better
Air Lubrication	Not Necessary*
Air Humidity	Low Moisture Content (dry)

Temperature Operating Range

Buna-N Seals (standard)	-20°~180° F	-30°~80° C
-------------------------	-------------	------------

Maintenance Specifications[†]

Expected Life	5 million cycles
Normal Application w/ Preventative Maintenance	10+ million cycles*
Field Repairable	Yes
Seal Repair Kits Available	Yes

*Addition of lubrication will greatly increase service life

[†]See Maintenance Section

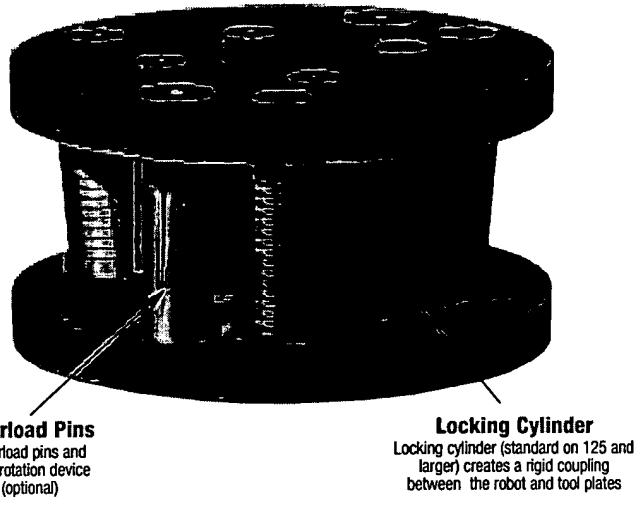
Product Features

Quality Components

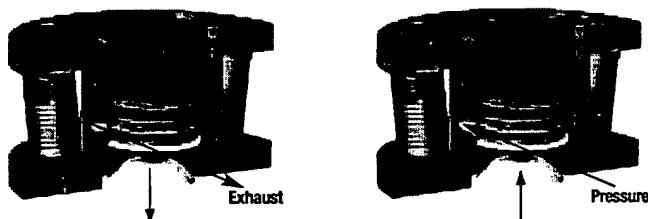
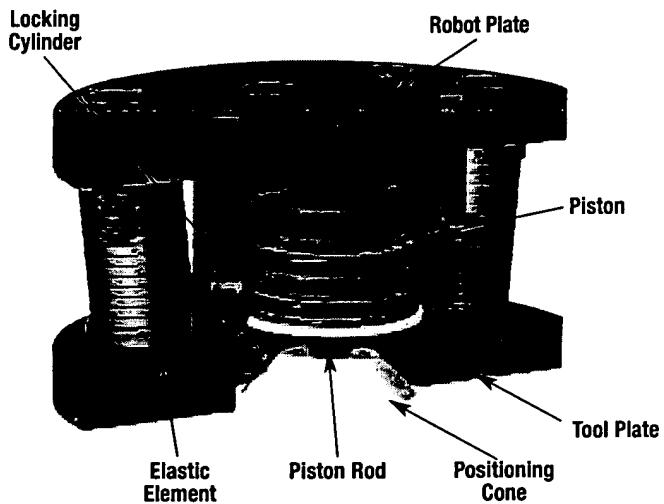
Anodized aluminum components
Elements are cutting fluid and coolant resistant

Lifetime Lubrication

Life time cylinder and locking mechanism lubrication



Operating Principle



- Two aluminum plates are connected by elastomeric elements which allow lateral, angular, and rotational movement between them.
- Larger units with locking cylinder allow the two plates to be rigidly connected to one another during acceleration or deceleration of the payload.

Style-RCW Compliance Wrist

Size-50

Style: RCW-50-3
Max. Payload: 2.4 lbs. 1.0 Kg
Lateral Comp. (X/Y): 0.118 in. 3 mm
Weight: 0.57 lbs. 0.26 Kg



See Page **9.14**

Style-RCW Compliance Wrist

Size-80

Style: RCW-80-3
Max. Payload: 5 lbs. 2.4 Kg
Lateral Comp. (X/Y): 0.118 in. 3 mm
Weight: 0.57 lbs. 0.26 Kg



See Page **9.15**

Style-RCW Compliance Wrist

Size-100

Style: RCW-100-4-6
Max. Payload: 8 lbs. 3.5 Kg
Lateral Comp. (X/Y): 0.118 in. 3 mm
Weight: 1.0 lbs. 0.4 Kg



See Page **9.16 & 9.17**

Style-RCW Compliance Wrist

Size-125

Style: RCW-125-6
Max. Payload: 15 lbs. 7 Kg
Lateral Comp. (X/Y): 0.079 in. 2.01 mm
Weight: 2.6 lbs. 1.2 Kg



See Page **9.18**

Style-RCW Compliance Wrist

Size-160

Style: RCW-160-6-8
Max. Payload: 40 lbs. 18 Kg
Lateral Comp. (X/Y): 0.079 in. 2 mm
Weight: 3.7 lbs. 1.7 Kg



See Page **9.19 & 9.20**

Style-RCW Compliance Wrist

Size-200

Style: RCW-200-6-8
Max. Payload: 115 lbs. 52 Kg
Lateral Comp. (X/Y): 0.118 in. 3 mm
Weight: 8.8 lbs. 4.0 Kg



See Page **9.21 & 9.22**

RCW SERIES
9.23

Style-RCW Compliance Wrist

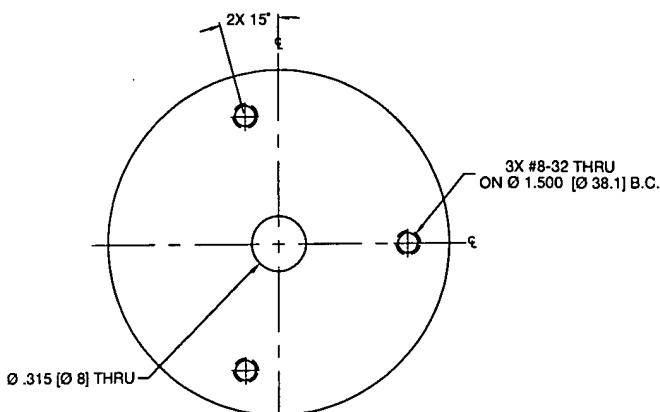
Size-300

Style: RCW-300-12
Max. Payload: 330 lbs. 150 Kg
Lateral Comp. (X/Y): 0.098 in. 2 mm
Weight: 12.8 lbs. 5.8 Kg



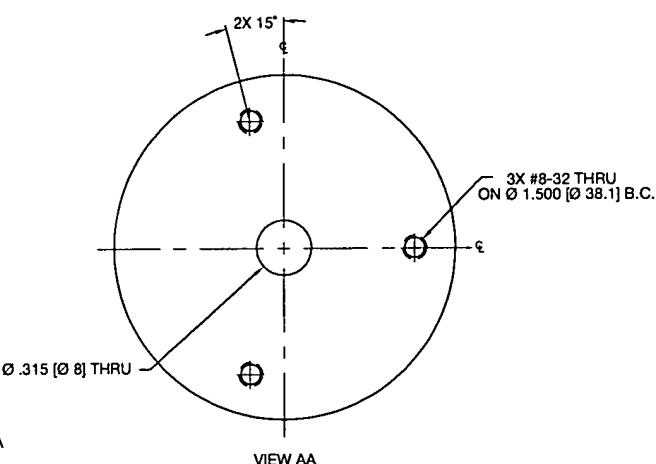
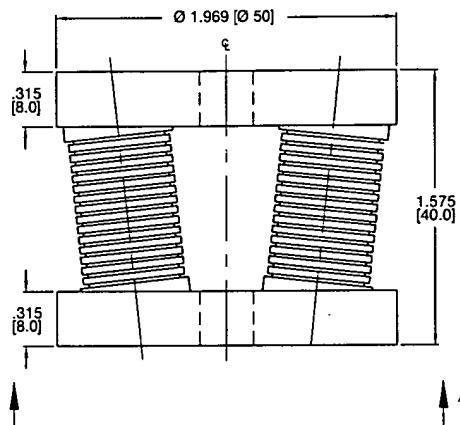
See Page **9.23**

COMPLIANCE WRIST RCW-50-3



Specifications

	RCW-50-3
Maximum Payload.....	2.4 lbs 1.1 Kg
Misalignment Capability.....	±0.08 in. ±2 mm
Maximum Rotation.....	±2° ±2°
Weight.....	0.57 lbs. 0.26 Kg
Temperature Range.....	-20°~180° F -30°~80° C

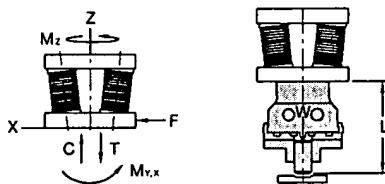


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Dimensions are symmetrical about centerline	Third Angle Projection	All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or (.013mm)	Imperial in.	Metric [mm]
			0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005	[0.] = [.25] [0.0] = [.13] [0.00] = [.013]

Loading Information

How to Order:



BASIC MODEL:

RCW-50-3

RCW SERIES

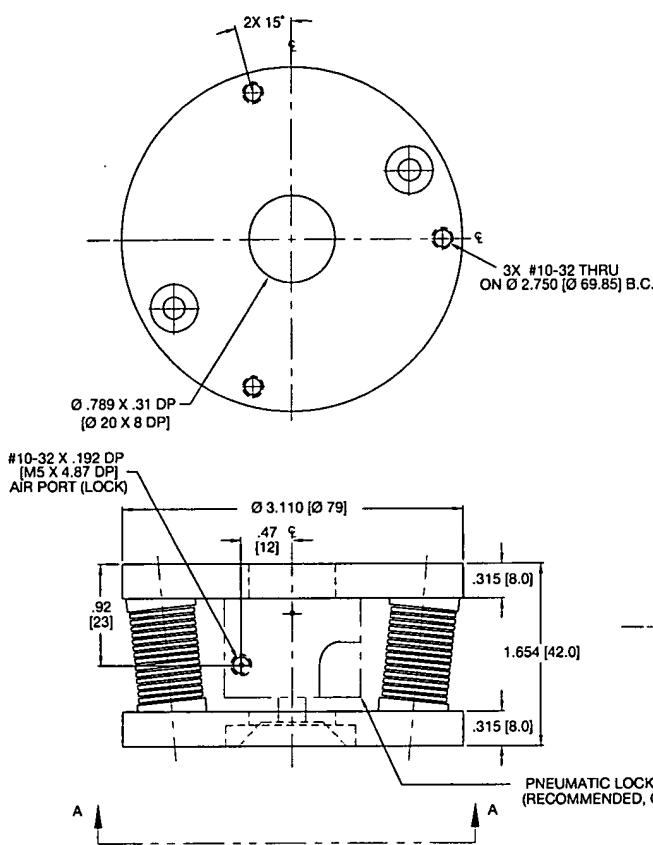
9.24

Loading Capacity

	Imperial	Metric
Maximum Force F	18 lbs.	80 N
Maximum Tension T	90 lbs.	400 N
Maximum Compressive C	90 lbs.	400 N
Maximum Moment M _x	177 in.-lbs.	20 Nm
Maximum Moment M _y	177 in.-lbs.	20 Nm
Maximum Moment M _z	177 in.-lbs.	20 Nm
Maximum Payload W	2.4 lbs.	1.1 Kg

Stiffness Information

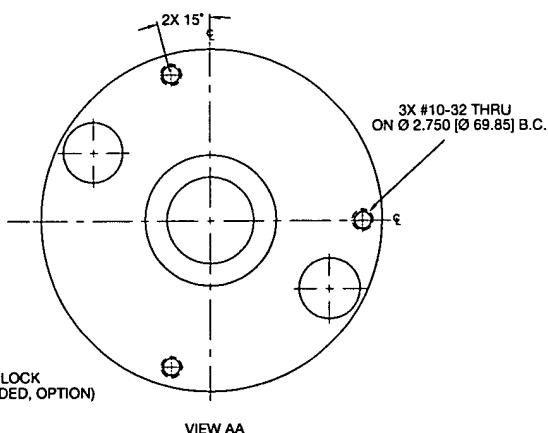
	Imperial	Metric
Torsional Stiffness about Z axis	157 in-lbs/deg	17 N-m/deg
Lateral Stiffness (X and Y axis)	228 lb/in	40 N/mm
Axial Stiffness (compression Z axis)	9136 lb/in	1600 N/mm
Insertion Point L Max	2 in.	50 mm



	RCW-80-3
Maximum Payload	5 lbs 2.4 Kg
Misalignment Capability	±0.118 in. ±3 mm
Maximum Rotation	±2° ±2°
Weight	0.57 lbs. 0.26 Kg
Pressure Range (locked cylinder)	40-100 psi 3-7 bar
Temperature Range	-20°~180° F -30°~80° C
Locking Force @ 80 PSI	50 lbs 222 N
Valve required to actuate	4-way, 2-position



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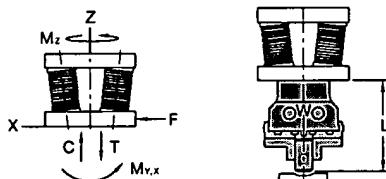


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	Dimensions are symmetrical about centerline		Third Angle Projection		All Dowel Holes are SF (Slip Fit)		Locational Tolerance ±.0005" or ±.013mm		Metric Threads Course Pitch		Imperial in.		Metric (mm)
										0.00 = ±.01	{0.0} = ±.25		
										0.000 = ±.005	{0.0} = ±.13		
										0.0000 = ±.0005	{0.00} = ±.013		

Loading Information

How to Order:



BASIC MODEL

PNEUMATIC LOCKING

RCW-80-3 - □ - □

OVERLOAD PINS

RCW SERIES

9.25

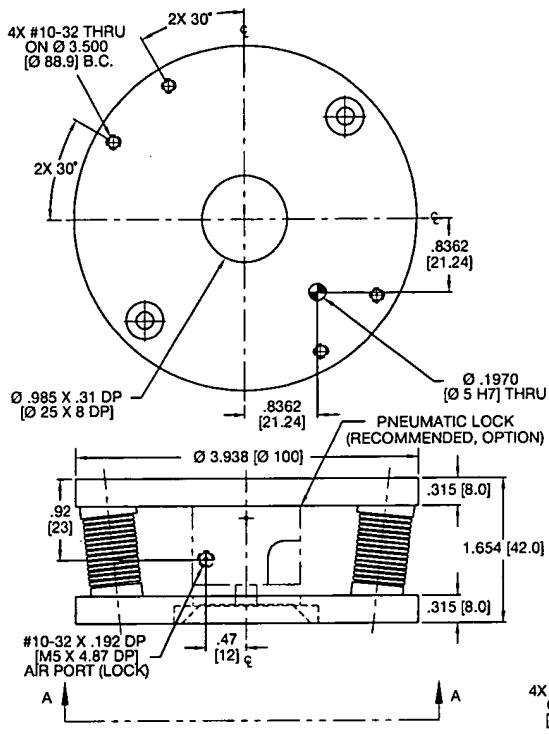
Loading Capacity*

	Imperial	Metric
Maximum Force F	18 lbs.	80 N
Maximum Tension T	90 lbs.	400 N
Maximum Compressive C	90 lbs.	400 N
Maximum Moment M_x	177 in.-lbs.	20 Nm
Maximum Moment M_y	177 in.-lbs.	20 Nm
Maximum Moment M_z	177 in.-lbs.	20 Nm
Maximum Payload W	5 lbs.	2.4 Kg

Stiffness Information

	Imperial	Metric
Torsional Stiffness about Z axis	248 in-lbs/deg	28 N-m/deg
Lateral Stiffness (X and Y axis)	228 lbf/in	40 N/mm
Axial Stiffness (compression Z axis)	9136 lbf/in	1600 N/mm
Insertion Point L Max	4 in.	100 mm

COMPLIANCE WRIST RCW-100-4

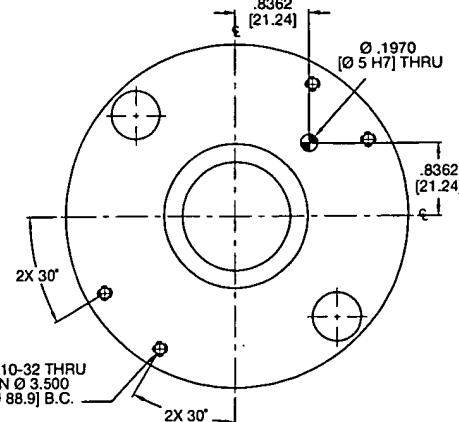


	RCW-100-4
Maximum Payload	8 lbs 3.5 Kg
Misalignment Capability	±0.118 in. ±3 mm
Maximum Rotation	±2°
Weight	1.0 lbs. 0.4 Kg
Pressure Range (locked cylinder)	40-100 psi 3-7 bar
Temperature Range	-20°-180° F -30°-80° C
Locking Force @ 80 PSI	80 lbs 355 N
Valve required to actuate	4-way, 2-position



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Dimensions are symmetrical about centerline

Third Angle Projection

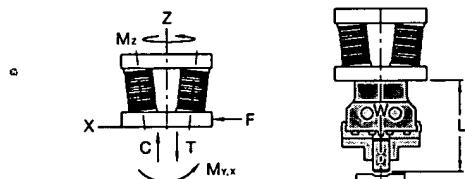
All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or (.013mm)

Metric Threads Course Pitch

Imperial in.	Metric [mm]
0.00 = ±.01	[0.1] = ±.25
0.000 = ±.005	[0.0] = ±.13
0.0000 = ±.0005	[0.00] = ±.013

Loading Information

How to Order:



BASIC MODEL PNEUMATIC LOCKING

RCW-100-4 - □ - □

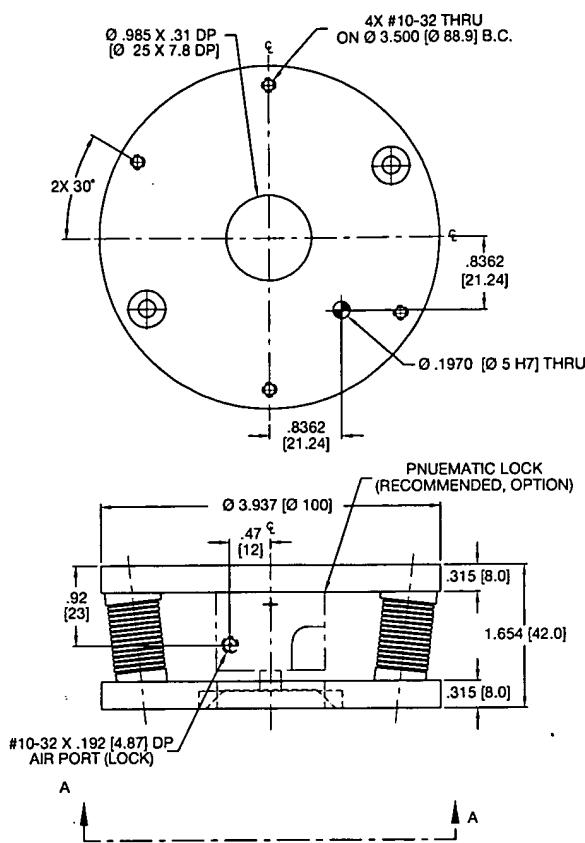
OVERLOAD PINS

Loading Capacity[†]

	Imperial	Metric
Maximum Force F	34 lbs.	150 N
Maximum Tension T	124 lbs.	550 N
Maximum Compressive C	124 lbs.	550 N
Maximum Moment M_x	177 in.-lbs.	20 Nm
Maximum Moment M_y	177 in.-lbs.	20 Nm
Maximum Moment M_z	177 in.-lbs.	20 Nm
Maximum Payload W	8 lbs.	3.5 Kg

Stiffness Information

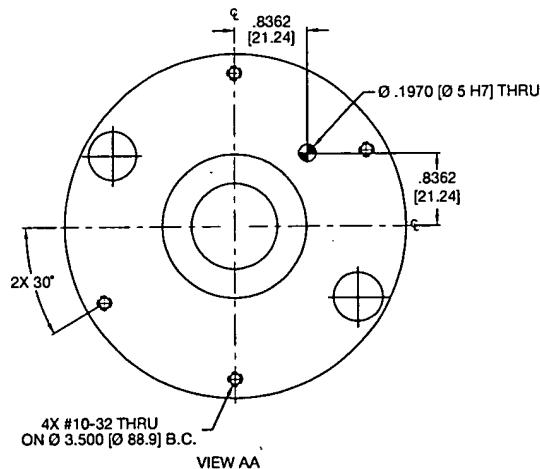
	Imperial	Metric
Torsional Stiffness about Z axis	412 in-lbs/deg	46 N-m/deg
Lateral Stiffness (X and Y axis)	286 lbf/in	50 N/mm
Axial Stiffness (compression Z axis)	11991 lbf/in	2100 N/mm
Insertion Point L Max	6 in.	150 mm


Specifications

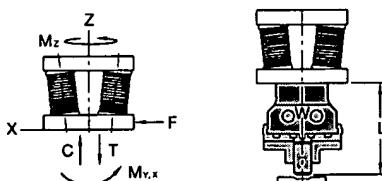
	RCW-100-6
Maximum Payload.....	8 lbs 3.5 Kg
Misalignment Capability.....	±0.118 in. ±3 mm
Maximum Rotation.....	±2° ±2°
Weight.....	1.0 lbs. 0.4 Kg
Pressure Range (locked cylinder).....	40-100 psi 3-7 bar
Temperature Range.....	-20°~180° F -30°~80° C
Locking Force @ 80 PSI.....	80 lbs 355 N
Valve required to actuate.....	4-way, 2-position



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					Metric Threads Course Pitch
					Imperial in. 0.00 = ±.01 [0.0] = {±.25} Metric [mm]
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					0.0000 = ±.0005 [0.00] = {±.013}

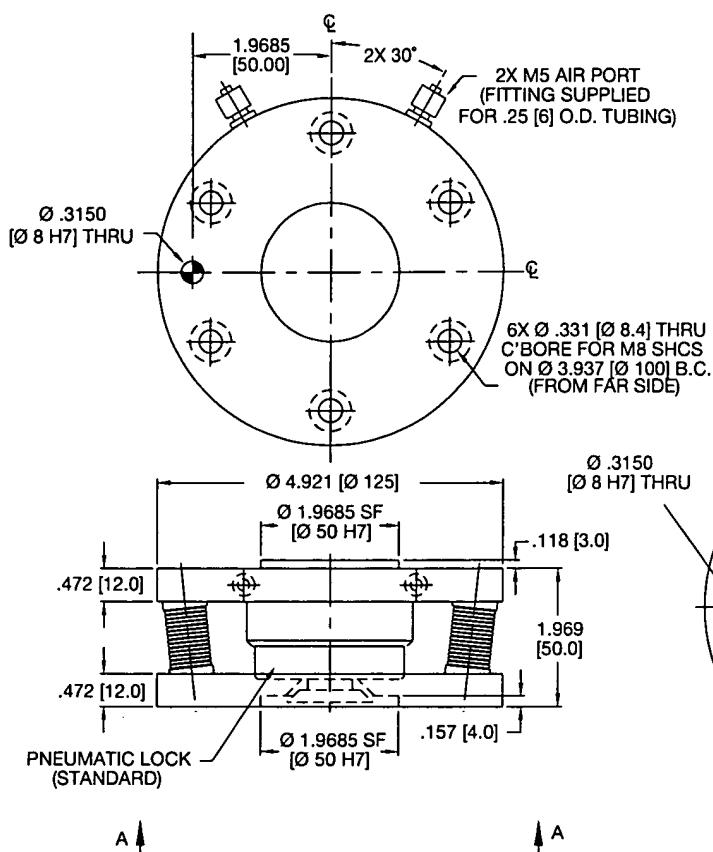
Loading Information
How to Order:

Loading Capacity[†]

	Imperial	Metric
Maximum Force F	55 lbs.	240 N
Maximum Tension T	180 lbs.	800 N
Maximum Compressive C	180 lbs.	800 N
Maximum Moment M_x	265 in.-lbs.	30 Nm
Maximum Moment M_y	265 in.-lbs.	30 Nm
Maximum Moment M_z	265 in.-lbs.	30 Nm
Maximum Payload W	8 lbs.	3.5 Kg

BASIC MODEL
RCW-100-6 - □ - □
PNEUMATIC LOCKING
OVERLOAD PINS
RCW SERIES
9.27
Stiffness Information

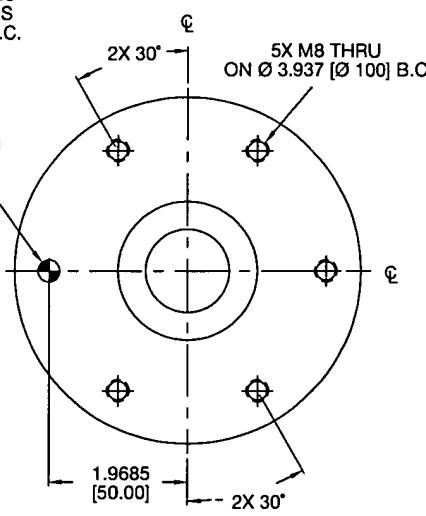
	Imperial	Metric
Torsional Stiffness about Z axis	628 in-lbs/deg	71 N-m/deg
Lateral Stiffness (X and Y axis)	457 lbf/in	80 N/mm
Axial Stiffness (compression Z axis)	18275 lbf/in	3200 N/mm
Insertion Point L Max	6 in.	150 mm

COMPLIANCE WRIST RCW-125-6



Specifications

	RCW-125-6
Maximum Payload.....	15 lbs 7 Kg
Misalignment Capability.....	±0.079 in. ±2 mm
Maximum Rotation.....	±1°
Weight.....	2.6 lbs. 1.2 Kg
Pressure Range (locked cylinder).....	40-100 psi 3-7 bar
Temperature Range.....	-20°~180° F -30°~80° C
Locking Force @ 80 PSI.....	135 lbs 600 N
Valve required to actuate.....	4-way, 2-position

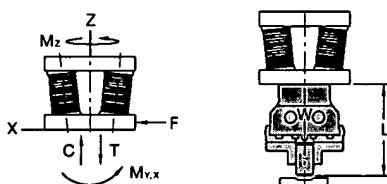


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All Dowel Holes are SF (Slip Fit). Locational Tolerance ±.0005" or [±.013mm]	Metric Threads Course Pitch
Imperial in.	Metric [mm]
0.00 = ±.01 0.000 = ±.005 0.0000 = ±.0005	[0.0] = [±.25] [0.0] = [±.13] [0.0] = [±.013]

Loading Information

How to Order:



BASIC MODEL

RCW-125-6

Loading Capacity¹

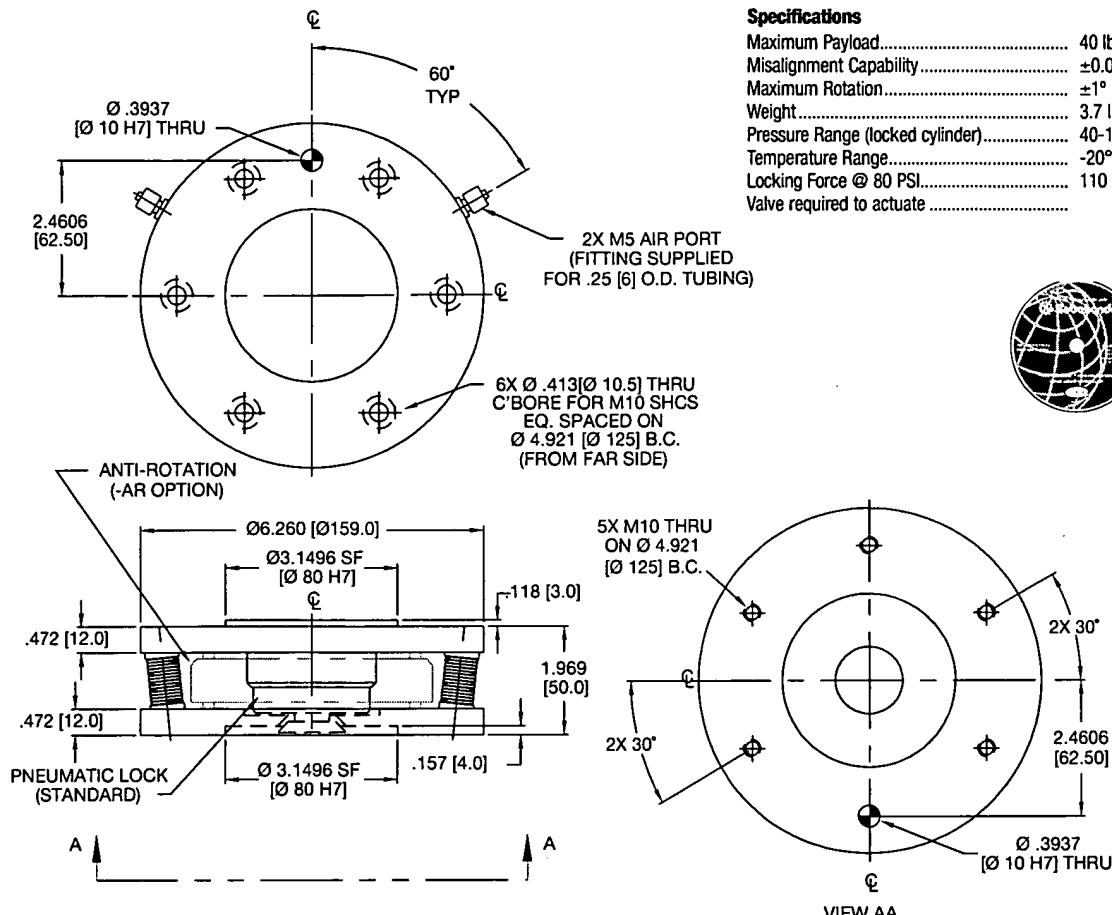
	Imperial	Metric
Maximum Force F	36 lbs.	160 N
Maximum Tension T	180 lbs.	800 N
Maximum Compressive C	180 lbs.	800 N
Maximum Moment M _x	265 in.-lbs.	30 Nm
Maximum Moment M _y	265 in.-lbs.	30 Nm
Maximum Moment M _z	265 in.-lbs.	30 Nm
Maximum Payload W	15 lbs.	7 Kg

RCW SERIES

9.28

Stiffness Information

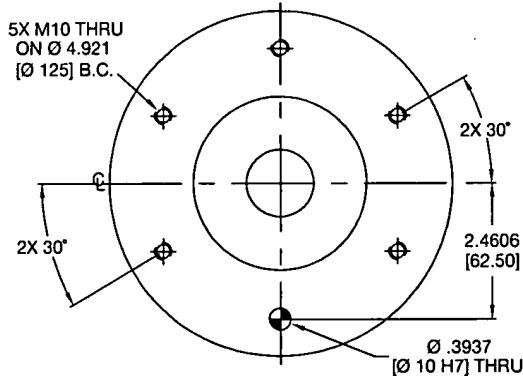
	Imperial	Metric
Torsional Stiffness about Z axis	785 in-lbs/deg	88 N-m/deg
Lateral Stiffness (X and Y axis)	457 lbf/in	80 N/mm
Axial Stiffness (compression Z axis)	18275 lbf/in	3200 N/mm
Insertion Point L Max	8 in.	200 mm


Specifications

	RCW-160-6
Maximum Payload.....	40 lbs 18 Kg
Misalignment Capability.....	±0.079 in. ±2 mm
Maximum Rotation.....	±1° ±1°
Weight.....	3.7 lbs. 1.7 Kg
Pressure Range (locked cylinder).....	40-100 psi 3-7 bar
Temperature Range.....	-20°~180° F -30°~80° C
Locking Force @ 80 PSI.....	110 lbs 489 N
Valve required to actuate.....	4-way, 2-position



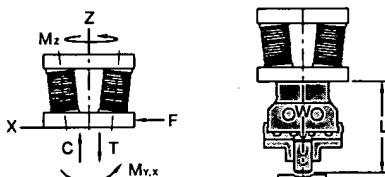
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				0.00 = ±.01 [0.0] = [±.25]
				0.000 = ±.005 [0.0] = [±.13]
				0.0000 = ±.0005 [0.00] = [±.013]

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How to Order:

BASIC MODEL ANTI-ROTATION
RCW-160-6 - □

RCW SERIES

9.29

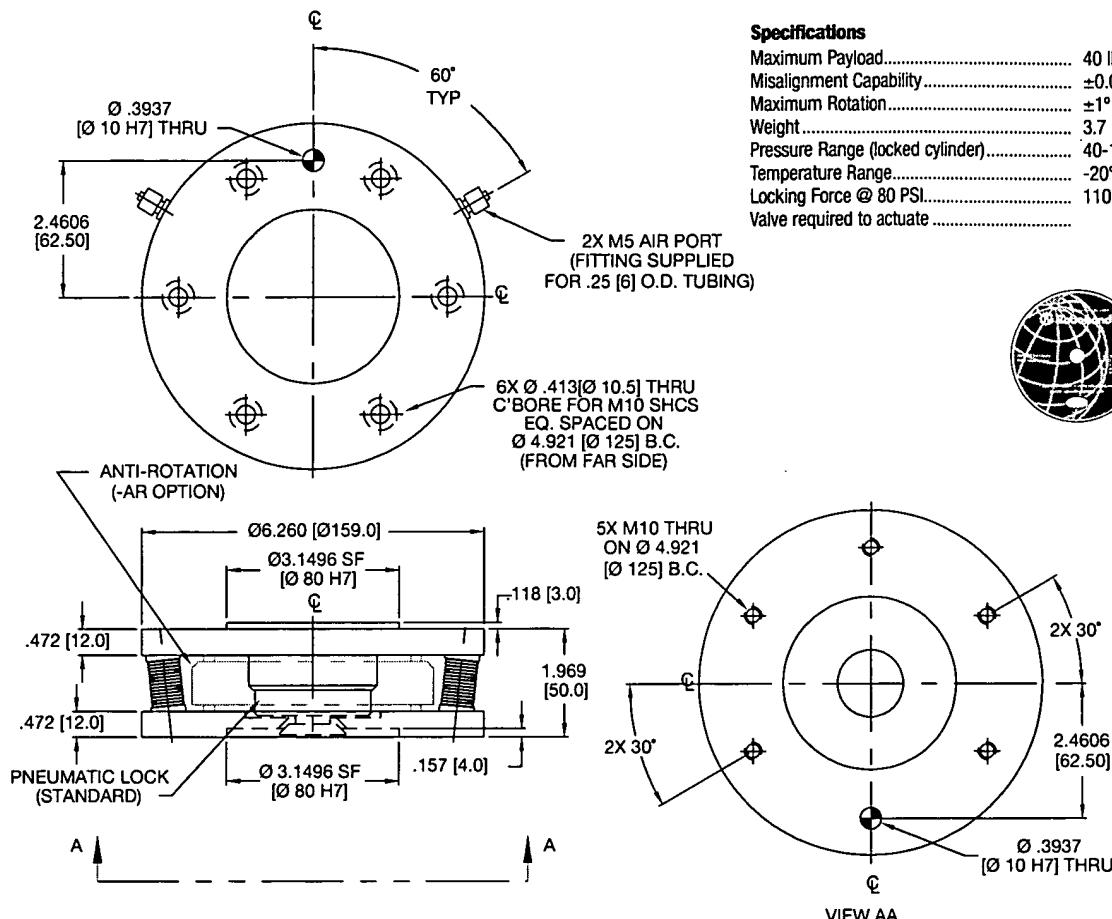
Loading Capacity¹

	Imperial	Metric
Maximum Force F	36 lbs.	160 N
Maximum Tension T	180 lbs.	800 N
Maximum Compressive C	180 lbs.	800 N
Maximum Moment M_x	265 in.-lbs.	30 Nm
Maximum Moment M_y	265 in.-lbs.	30 Nm
Maximum Moment M_z	265 in.-lbs.	30 Nm
Maximum Payload W	40 lbs.	18 Kg

Stiffness Information

	Imperial	Metric
Torsional Stiffness about Z axis	998 in-lbs/deg	113 N-m/deg
Lateral Stiffness (X and Y axis)	457 lbf/in	80 N/mm
Axial Stiffness (compression Z axis)	18275 lbf/in	3200 N/mm
Insertion Point L Max	12 in.	300 mm

COMPLIANCE WRIST RCW-160-8

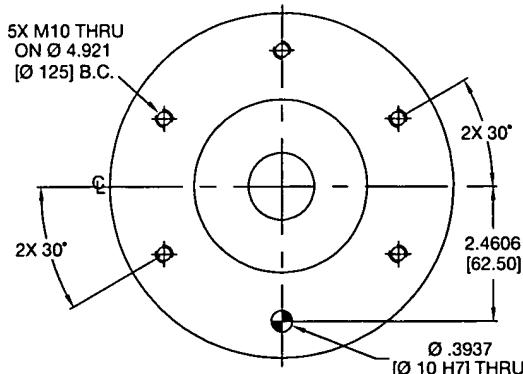


Specifications

	RCW-160-8
Maximum Payload.....	40 lbs 18 Kg
Misalignment Capability.....	±0.079 in. ±2 mm
Maximum Rotation.....	±1° ±1°
Weight.....	3.7 lbs. 1.7 Kg
Pressure Range (locked cylinder).....	40-100 psi 3-7 bar
Temperature Range.....	-20°~180° F -30°~80° C
Locking Force @ 80 PSI.....	110 lbs 489 N
Valve required to actuate.....	4-way, 2-position



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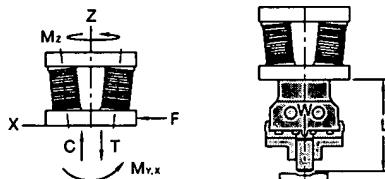


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								0.00 = ±.01 0.000 = ±.005 0.000 = ±.0005	{0.0} = ±.25 {0.0} = ±.13 {0.0} = ±.013

Loading Information



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BASIC MODEL ANTI-ROTATION

RCW-160-8 -

RCW SERIES

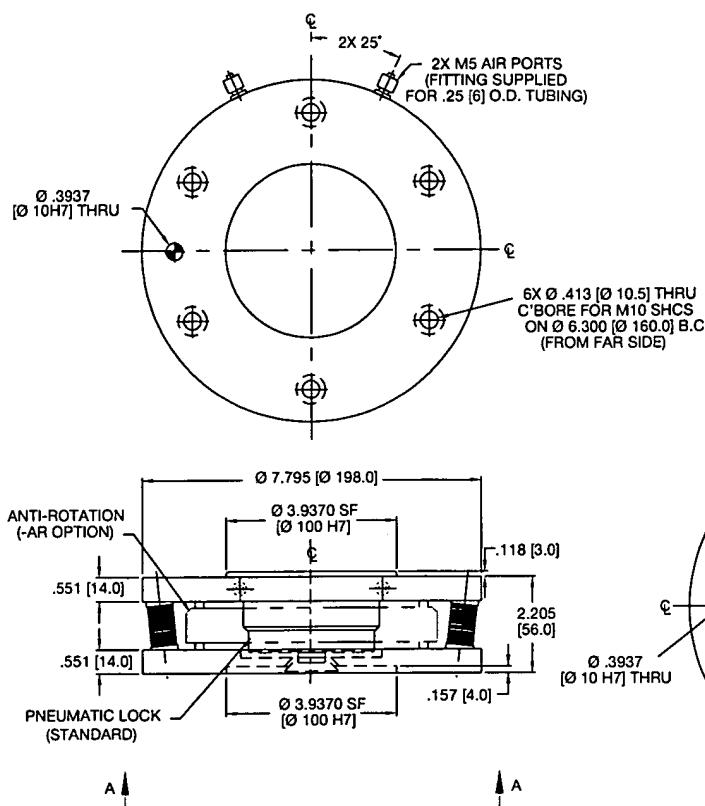
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Loading Capacity[†]

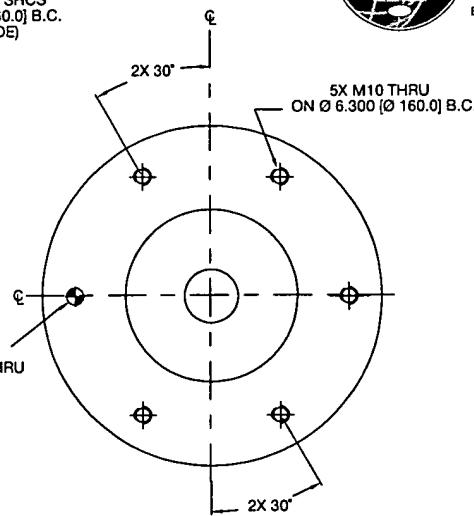
	Imperial	Metric
Maximum Force F	45 lbs.	200 N
Maximum Tension T	225 lbs.	1001 N
Maximum Compressive C	225 lbs.	1001 N
Maximum Moment M _x	708 in.-lbs.	80 Nm
Maximum Moment M _y	708 in.-lbs.	80 Nm
Maximum Moment M _z	708 in.-lbs.	80 Nm
Maximum Payload W	40 lbs.	18 Kg

Stiffness Information

	Imperial	Metric
Torsional Stiffness about Z axis	1310 in-lbs/deg	148 N-m/deg
Lateral Stiffness (X and Y axis)	570 lbf/in	100 N/mm
Axial Stiffness (compression Z axis)	23985 lbf/in	4200 N/mm
Insertion Point L Max	12 in.	300 mm


Specifications

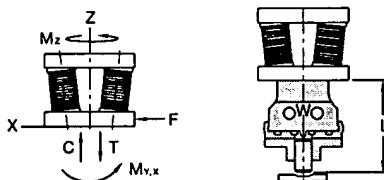
	RCW-200-6
Maximum Payload.....	115 lbs 52 Kg
Misalignment Capability.....	±0.118 in. ±3 mm
Maximum Rotation.....	±1° ±1°
Weight.....	8.8 lbs. 4 Kg
Pressure Range (locked cylinder).....	40-100 psi 3-7 bar
Temperature Range.....	-20°-180° F -30°-80° C
Locking Force @ 80 PSI.....	400 lbs 1779 N
Valve required to actuate.....	4-way, 2-position



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UNLESS OTHERWISE NOTED ALL TOLERANCES ARE AS SHOWN BELOW

	Dimensions are symmetrical about centerline		Third Angle Projection		All Dowel Holes are SF (Slip Fit)		Locational Tolerance ±.0005" or [.013mm]		Metric Threads Course Pitch	Imperial In.	Metric [mm]
										0.00 = ±.01	(0.) = [±.25]
										0.000 = ±.005	[0.0] = [±.13]
										0.0000 = ±.0005	[0.00] = [±.013]

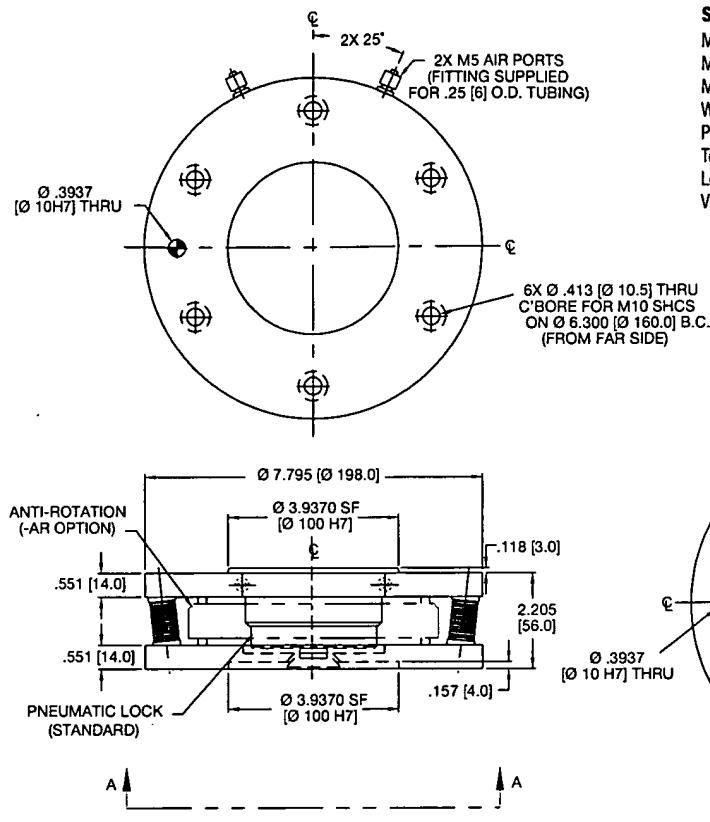
Loading Information
How to Order:

BASIC MODEL ANTI-ROTATION
RCW-200-6 - □
RCW SERIES
9.31
Loading Capacity

	Imperial	Metric
Maximum Force F	55 lbs.	240 N
Maximum Tension T	180 lbs.	800 N
Maximum Compressive C	180 lbs.	800 N
Maximum Moment Mx	265 in.-lbs.	30 Nm
Maximum Moment My	265 in.-lbs.	30 Nm
Maximum Moment Mz	265 in.-lbs.	30 Nm
Maximum Payload W	115 lbs.	52 Kg

Stiffness Information

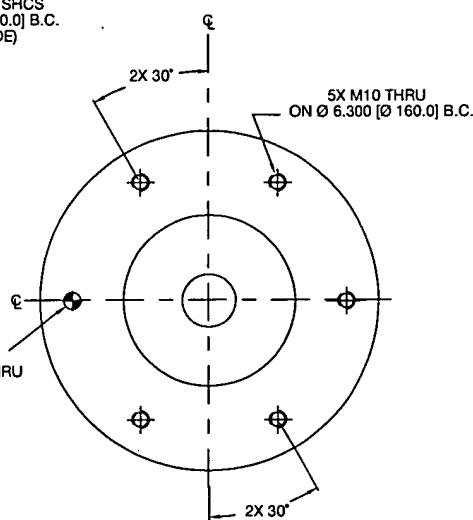
	Imperial	Metric
Torsional Stiffness about Z axis	1243 in-lbs/deg	140 N-m/deg
Lateral Stiffness (X and Y axis)	457 lb/in	80 N/mm
Axial Stiffness (compression Z axis)	18275 lb/in	3200 N/mm
Insertion Point L Max	16 in.	400 mm

COMPLIANCE WRIST RCW-200-8



Specifications

RCW-200-8	
Maximum Payload.....	115 lbs 52 Kg
Misalignment Capability.....	±0.118 in. ±3 mm
Maximum Rotation.....	±1° ±1°
Weight.....	8.8 lbs. 4 Kg
Pressure Range (locked cylinder).....	40-100 psi 3-7 bar
Temperature Range.....	-20°~180° F -30°~80° C
Locking Force @ 80 PSI.....	400 lbs 1779 N
Valve required to actuate	4-way, 2-position



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Dimensions are symmetrical about centerline
 Third Angle Projection

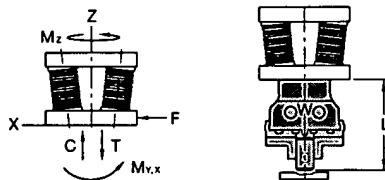
All Dowel Holes are SF (Slip Fit).
Locational Tolerance
±.0005" or [$\pm .013\text{mm}$]

Metric Threads
Course Pitch

Imperial in. Metric [mm]
0.00 = ±.01 [0.1] = [$\pm .25$]
0.000 = ±.005 [0.0] = [$\pm .13$]
0.0000 = ±.0005 [0.00] = [$\pm .013$]

Loading Information

How to Order:



BASIC MODEL ANTI-ROTATION

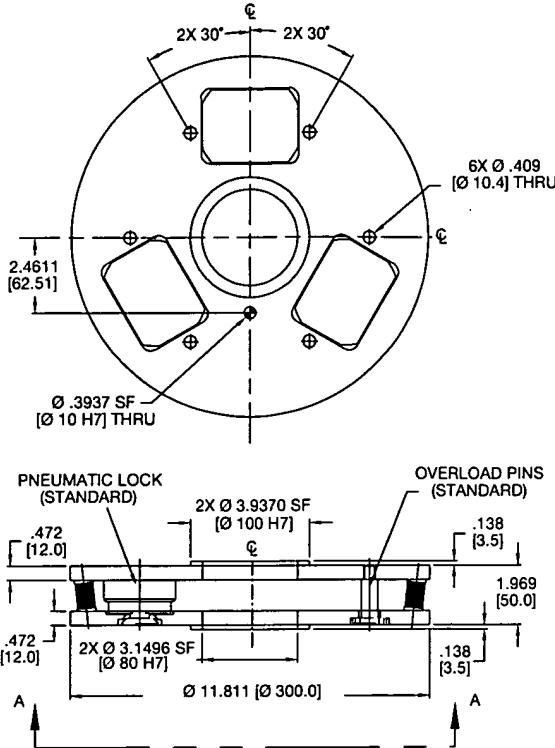
RCW-200-8 -

Loading Capacity[†]

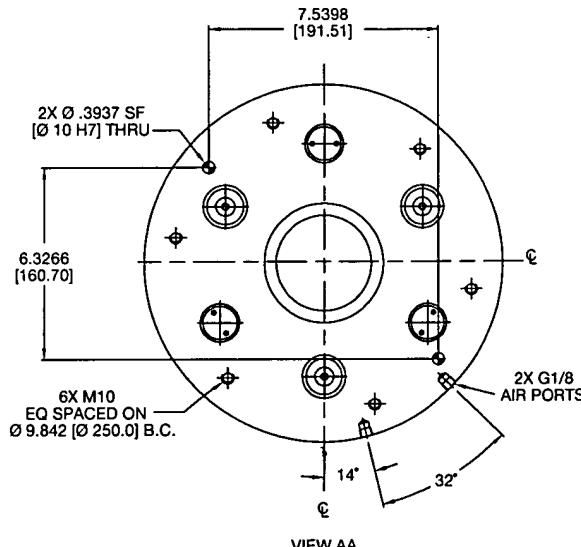
	Imperial	Metric
Maximum Force F	68 lbs.	300 N
Maximum Tension T	225 lbs.	1001 N
Maximum Compressive C	225 lbs.	1001 N
Maximum Moment M_x	709 in.-lbs.	80 Nm
Maximum Moment M_y	709 in.-lbs.	80 Nm
Maximum Moment M_z	709 in.-lbs.	80 Nm
Maximum Payload W	115 lbs.	52 Kg

Stiffness Information

	Imperial	Metric
Torsional Stiffness about Z axis	1632 in-lbs/deg	184 N-m/deg
Lateral Stiffness (X and Y axis)	570 lbf/in	100 N/mm
Axial Stiffness (compression Z axis)	23985 lbf/in	4200 N/mm
Insertion Point L Max	16 in.	400 mm


Specifications

	RCW-300-12
Maximum Payload.....	330 lbs 150 Kg
Misalignment Capability.....	±0.098 in. ±2.5 mm
Maximum Rotation.....	±1° ±1°
Weight.....	12.8 lbs. 5.8 Kg
Pressure Range (locked cylinder).....	40-100 psi 3-7 bar
Temperature Range.....	-20°-180° F -30°-80° C
Locking Force @ 80 PSI.....	400 lbs 1779 N
Valve required to actuate.....	4-way, 2-position

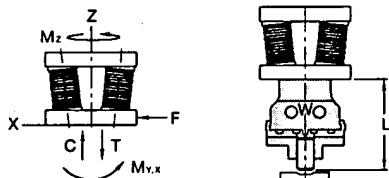


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	Dimensions are symmetrical about centerline
	Third Angle Projection
	All Dowel Holes are SF (Slip Fit)
	Locational Tolerance ±.0005" or (.013mm)
	Metric Threads Course Pitch
Imperial in.	Metric [mm]
0.00 = ±.01	[0.0] = [±.25]
0.000 = ±.005	[0.0] = [±.13]
0.0000 = ±.0005	[0.00] = [±.013]

Loading Information

How to Order:
BASIC MODEL
RCW-300-12

RCW SERIES

9.33

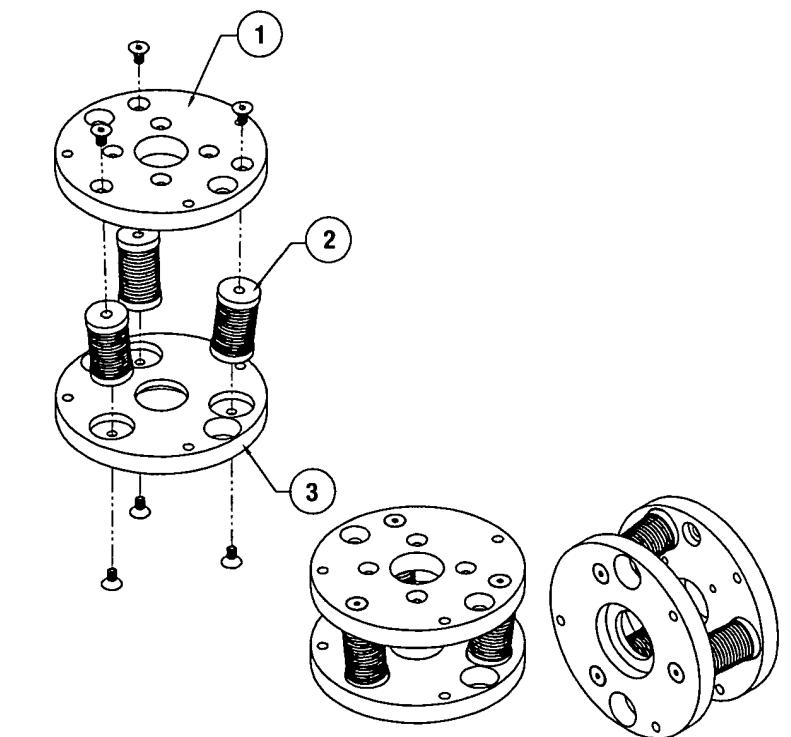
Loading Capacity[†]

	Imperial	Metric
Maximum Force F	90 lbs.	400 N
Maximum Tension T	450 lbs.	2000 N
Maximum Compressive C	450 lbs.	2000 N
Maximum Moment M_x	880 in.-lbs.	100 Nm
Maximum Moment M_y	880 in.-lbs.	100 Nm
Maximum Moment M_z	880 in.-lbs.	100 Nm
Maximum Payload W	330 lbs.	150 Kg

Stiffness Information

	Imperial	Metric
Torsional Stiffness about Z axis	3742 in-lbs/deg	422 N-m/deg
Lateral Stiffness (X and Y axis)	915 lbf/in	160 N/mm
Axial Stiffness (compression Z axis)	36545 lbf/in	6400 N/mm
Insertion Point L Max	24 in.	600 mm

RCW Series Exploded View

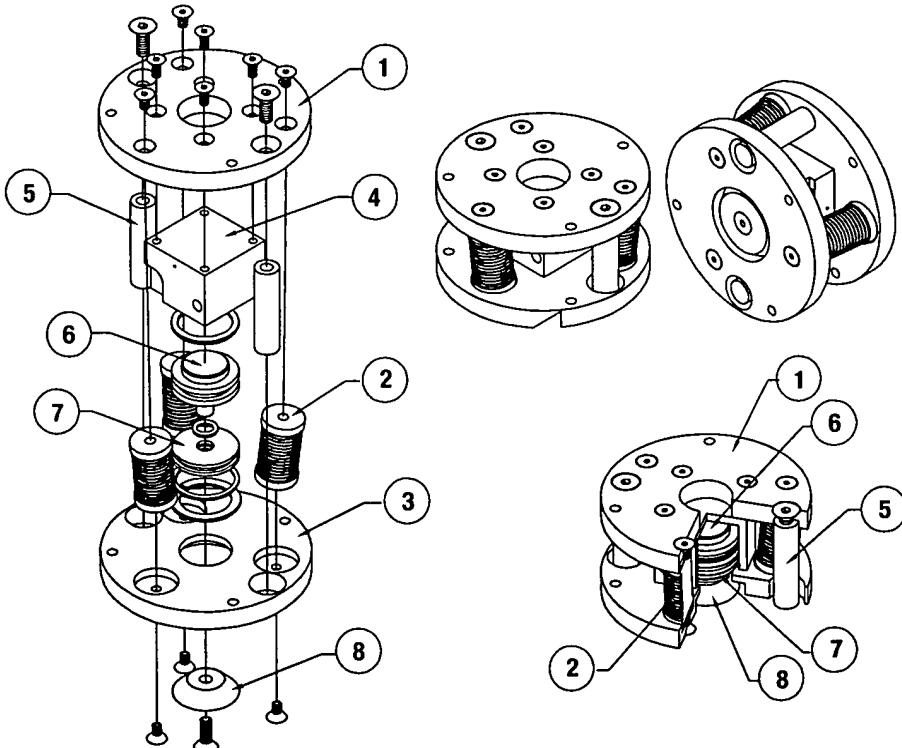


Item Qty Name

01	1	Top Plate
02	x	Flexible Element
03	1	Bottom Plate
04	1	Locking Cylinder
05	1	Overload Pin
06	1	Piston
07	1	Cap
08	1	Centering Cone

NOTE: Contact the Robohand Sales Department for a complete spare parts list with order numbers and prices.

**SK Seal Repair Kit Order #'s
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